



*Image shown may not  
reflect actual transmission*

### NUMBER OF GEARS

|                           |         |
|---------------------------|---------|
| # Gears (Forward/Reverse) | 3F / 3R |
|---------------------------|---------|

### RATINGS

|                     |                         |
|---------------------|-------------------------|
| Rated Input Power   | 800 hp / 354 kW         |
| Rated Input Torque  | 3,255 ft-lb / 2,240 N-m |
| Rated Input Speed   | 1,750 rpm               |
| Maximum Input Speed | 1,800 rpm               |
| Minimum Input Speed | 700 rpm                 |

### ROTATION

|                 |                                                   |
|-----------------|---------------------------------------------------|
| Input Rotation  | SAE J824 Standard                                 |
| Output Rotation | Forward, Same as Input<br>Reverse, Opposite Input |

### MOUNTINGS

|                             |              |
|-----------------------------|--------------|
| Input Connection (Flywheel) | Yoke         |
| Output Connection (Yoke)    | Non-Standard |

### ELECTRICAL SYSTEM

|                   |            |
|-------------------|------------|
| Electrical System | 12V or 24V |
|-------------------|------------|

### TORQUE CONVERTER

|                                   |         |
|-----------------------------------|---------|
| Series                            | TC56-EI |
| Stall Torque Ratio at Rated Speed | 2.28    |

### POWER TAKE OFF (PUMP AUXILIARY DRIVE)

|             |                                                                         |
|-------------|-------------------------------------------------------------------------|
| Description | 5 PTOs Integral Live Drive 1:1 Ratio<br>From Input Shaft                |
| Location    | 1:00, 5:00, and 11:00                                                   |
| Mountings   | 3 Mounting Pads on Rear<br>2 Mounting Pads on Front<br>Torque Converter |
| Rated Power | 425 hp / 317 kW                                                         |

### CLUTCHES

|                              |                                                             |
|------------------------------|-------------------------------------------------------------|
| Clutches                     | Electro-Hydraulic Fully Modulated,<br>Oil Cooled, Multidisc |
| Clutch Modulation<br>Control | Electric Long Range<br>Transmission (ELRT)                  |

### INSTALLATION CONNECTIONS

|                          |                             |
|--------------------------|-----------------------------|
| Installation Connections | 6 Hydraulic<br>1 Electrical |
|--------------------------|-----------------------------|

# TR53-M33B

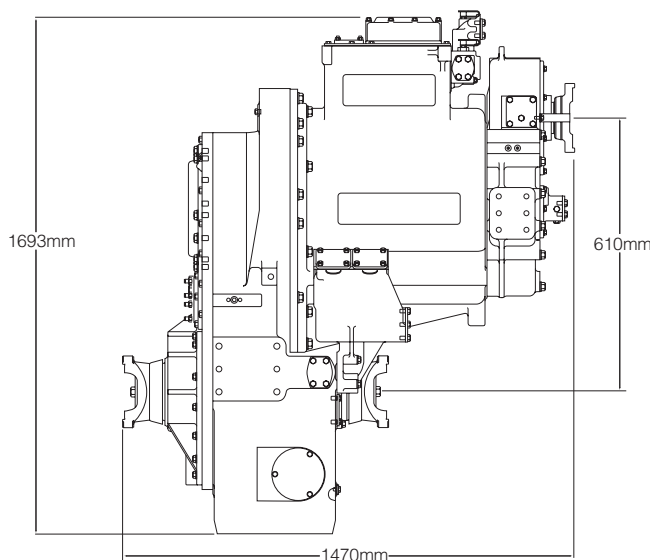
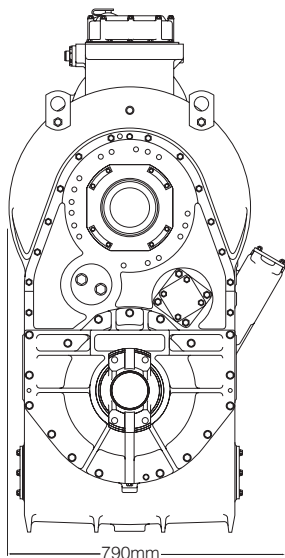
# Specifications

## OIL SYSTEM

|                         |                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------|
| Oil                     | Cat® Transmission/<br>Drive Train SAE 30<br>Transmission Drive<br>Train Oil-4<br>(or Equivalent) |
| Max Oil Temperatures    |                                                                                                  |
| Continuous              | 195°F / 90°C                                                                                     |
| Operating               | 210°F / 99°C                                                                                     |
| Hydraulic Fill Capacity | 44.6 gal / 169 L                                                                                 |
| Filter Type             | 6 Micron Paper Cartridge<br>Remote Mounted                                                       |

## WEIGHT

*\*Approximate Dry Weight*  
Weight without Retarder 5,071 lbs / 2,300 kg



## GEARS

|                           |                                     |
|---------------------------|-------------------------------------|
| Transmission Gearing Type | Helical, Straight<br>Spur Planetary |
| <i>*Gear Ratios</i>       |                                     |
| 1F                        | 5.6224                              |
| 2F                        | 3.1428                              |
| 3F                        | 1.7653                              |
| 4F                        | 1.0000                              |
| Input Transfer Gear Ratio | 0.9107                              |
| Output                    | 1.6154                              |
| 1R                        | -5.3669                             |
| 2R                        | -3.0000                             |
| 3R                        | -1.6851                             |
| 4R                        | -0.9545                             |

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